

## ABSTRACT:

Microwave antennas with a dielectric substrate (1) and at least one resonant conductor track structure (31 to 39) are described, which are particularly suitable for mobile dual-band and multiband telecommunication devices such as mobile and cellular telephones, as well as for devices which communicate in accordance with the Bluetooth standard. In addition, attuning of the resonance frequencies of various operating modes to a concrete constructional situation is possible thanks to various line segments (34, 35) and tuning stub lines (41, 42) without the necessity of changing the fundamental antenna design. Finally, the antennas may be soldered together with other components onto a printed circuit board in a conventional surface mounting process.

Fig. 1